

PRODUCT DATA SHEET

SikaWall®-610 F SA

ACRYLIC DECORATIVE FACADE RENDER

DESCRIPTION

SikaWall®-610 F SA is hydrophobic, acrylic, facade render reinforced with special fibers, it is used as finishing and decorative render in thermal isolation system. SikaWall®-610 F SA has a fine finishing surface, and in a wide range of colors. Suitable for use in hot and tropical climatic conditions.

USES

SikaWall®-610 F SA designed for use as a final finishing layer of Sikatherm® external thermal insulation composite system.

- Suitable as finishing coat for plasters in indoor and outdoor applications.
- Suitable for application on concrete, masonry, plasterboards and cement boards.

CHARACTERISTICS / ADVANTAGES

- Good UV resistance
- High elasticity and good workability
- "Breathable" finish
- Available in a wide range of colors
- Low water absorption
- Easy maintenance
- Excellent adhesion to various substrates
- Good water vapour permeability
- Good water repellence properties

APPROVALS / CERTIFICATES

Follows main requirements of EN 15824 Specifications for external renders and internal plasters based on organic binders

PRODUCT INFORMATION

Composition	Filled Acrylic Dispersion
Packaging	25 kg pail
Appearance / Colour	White, other colors available upon request.
Shelf life	12 months shelf life from date of production
Storage conditions	Store properly in undamaged and unopened original sealed packaging in cool and dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Density	~1,8 kg/l
Granulometry	~1.5 mm

Volatile organic compound (VOC) content	<0,5 g/l	Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing, Annex II, List A (subcategory c, base WB)-phase 2011 (< 40 g/l)
Tensile adhesion strength	≥ 0,3 N/mm ² (28 days)	(EN 1542)
Permeability to water vapour	$\frac{V}{S_d \cdot m}$	15 < V < 150 0.14 < S _d < 1.4 Class V ₂ EN ISO 7783-2)
Water absorption	0.1 – 0.5 kg/m ² ·min ^{0.5}	Class W ₂ (EN 1062-3)
Thermal conductivity	0.7 W/m.K	EN 1745 (Table A12)

SYSTEM INFORMATION

System structure	SikaWall®-610 F SA forms part of ETICS system Sikatherm® which comprises of the following products:	
	SikaWall®-1010 FIX SA	Cementitious mortar for bonding and rendering thermal insulation boards
	Thermal isolation boards	EPS, XPS, Mineral Wool, Cork, etc.
	SikaWall® -9100 SA	Alkali resistant glass fiber mesh for strengthening the rendering of thermal insulation boards
	SikaWall® -1030 UNI SA	Cementitious mortar for rendering thermal insulation boards
	SikaWall®-610 Primer SA	Acrylic Water dispersed primer for renders
	SikaWall®-610 F SA	Acrylic based, paste-like profile finishing coating
	SikaWall® Acryl color SA	Acrylic based decorative coat
	Sikatherm® -900 SA	Plastic/metal expandable fixation anchor for external thermal insulation composite systems

APPLICATION INFORMATION

Consumption	~2,8 kg/m ² This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc..
Ambient air temperature	+5°C min. / +30°C max.
Substrate temperature	+5°C min. / +35°C max.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

- European guideline for the application of ETICS
- ETAG 004

IMPORTANT CONSIDERATIONS

- Cementitious substrates must be minimum 28 days old. Prepare the substrate according to given instructions. Apply render only on recommended, clean substrate.
- Don't add water into material.
- Don't apply material in thickness higher than maximum grain size.
- The optimum temperature during application of the

product is between +5°C and +35°C, while the maximum relative air humidity must be 80% max.

- The application should not take place under direct sunlight, high radiation, strong wind, rain or frost. Therefore, it is necessary to use suitable coverings to protect the façade.
- Prior to the application, check the color shade and the sufficiency on site of the quantity of SikaWall®-610 F SA for the complete application.
- For exact color matching, ensure that SikaWall®-610 F SA has the same batch number on each section of the façade. Surfaces from one corner of the wall to the other are defined as sections.
- In case the application process has to stop, do so near joints, balconies or areas with sharp lines, so when the application restarts, the connection marks will be less obvious.
- It is recommended that the applicators should be the same during the whole application. They should work in groups, so as that one applicator applies SikaWall®-610 F SA on the surface and the second one smooths the still wet surface of the applied product, without any interruption. The application & smoothing process should not stop on the surface for any other reason but coming across an edge or an architectural finish, such as a gutter or an architectural detail. If this process is not strictly followed, there is a risk for darkening / shade appearance on the final surface, despite the fact that product is applied from the same batch. The application process as described above should take place simultaneously on each level. Therefore, it is important that the planning of the application is properly organized in advance.
- In cases of SikaWall®-610 F SA application from different batch numbers, stir the content of 2 or more pails in a large container. When sufficient quantity of the prepared compound (for example half of it) is used, stir the remaining material with the content of the next pail following the same process, in order the final color shade to be uniform for whole application.
- Users must follow ETAG 004 "guideline for European technical approval of external thermal insulation composite systems with rendering"

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be dry, sound and free from cracks, oil, grease, loose and friable particles, which could affect the correct application of SikaWall®-610 F SA.

Coated surfaces

Old coatings must be tested in order to confirm their adhesion to the substrate and must be completely re-

moved if considered to be inappropriate. Remove loose areas or mortar residues and where alignment work is needed, fill the gaps or cracks that exist with SikaWall®-1010 FIX SA or SikaWall®-1013 UNI SA.

Prepare the surface by brushing, wiping or washing with high pressure water jetting (200-400 bar) and wait for drying.

Concrete / Masonry / Cement boards

Substrate must be cured (at least 28 years old for concrete) and must be prepared with suitable mechanical methods. In case of defects on concrete or masonry, apply appropriate repair mortars from SikaRep® or Sika MonoTop® range. When alignment work is needed, apply SikaWall®-1010 FIX SA or SikaWall®-1013 UNI SA for rendering as base coat by embedding Sika SikaWall® - 9100 SA and wait for them to dry.

Don't apply on areas with rising moisture. At least 12 hours before the application, apply one layer of SikaWall®-610 Primer SA diluted with 15% by weight of clean water depending on substrate's absorption and wait for 12-24 hours, depending on the prevailing conditions. If needed, select the appropriate color of Sika SikaWall®-610 Primer SA, in order the application of Sika SikaWall®-610 F SA will not encounter issues concerning the tint (differences in shades etc).

For further technical information, please consult our Technical Department.

MIXING

SikaWall®-610 F SA is ready for use. Stir thoroughly prior to the application for 3-4 minutes. Special attention should be paid to tinted darker colour shades of the product. The addition of excess water may differentiate product's color shade & technical characteristics.

APPLICATION

Apply an uniform layer of SikaWall®-610 F SA manually from the bottom to the top (upwards) using a stainless-steel spatula at thickness layer corresponding to the product's maximum grain size. Smooth the surface using a plastic trowel according to the desired aesthetic effect. Always apply test area first.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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ISO 9001: Sika UAE LLC,
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Sika Qatar LLC
ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
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All products are supplied
under a management
system certified to conform
to the requirements of the
quality, environmental and
occupational health &
safety standards ISO 9001,
ISO 14001 and OHSAS
18001.

Product Data Sheet

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September 2021, Version 01.01
02181510000000273